

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An update method performed by a server and a control device of a navigation apparatus for updating search data used in ~~[[a]]~~ the navigation apparatus, the update method comprising:

providing, by the server, data constituted with search tree data having tree structure and a plurality of sets of first substance data specified based upon the search tree data, as search data prior to an update, the first substance data including facility information;

providing, by the server, a set of second substance data, which has an index as a search key ~~search-related information wherein the second substance data and is does not include~~ ~~different from~~ data specified based upon ~~[[the]]~~ search tree data, separately from the data constituted with the search tree data and the plurality of sets of first substance data specified based upon the search tree data, ~~when and not~~ updating a set of first substance data in the search data ~~[[or]]~~ and not adding a set of first substance data to the search data; and

executing, by the control device, a substance data search by using a tree search based on ~~[[both]]~~ the search tree data of the search data prior to an update and an index search using the ~~search-related information~~ index of the provided set of second substance data.

2. (Currently Amended) The update method performed by a server and a control device of a navigation apparatus for updating search data used in [[a]] the navigation apparatus according to claim 1, further comprising:

storing, by the control device, the provided set of second substance data having ~~search-related information~~ the index as update data in the navigation apparatus separately from the search tree data and the plurality of sets of first substance data specified based upon the search tree data, ~~without updating the search tree data or creating new search tree data.~~

3. (Currently Amended) A search data update system, comprising:
a navigation apparatus that uses search data; and
a search data providing apparatus that provides update data to be used to update the search data to the navigation apparatus, wherein:

the navigation apparatus includes a ~~first~~ storage device at which first search data constituted with search tree data having tree structure and a plurality of sets of first substance data each specified based upon the search tree data are stored, ~~a second storage device~~ and an update data obtaining device that obtains the update data to be used to update the search data from the search data providing apparatus, the substance data including facility information;

the update data are provided in units of individual sets of second substance data, wherein the second substance data include attached thereto an

index as a search key information to be used in a search in correspondence to each set of second substance data, and do not include ~~are different from~~ data specified based upon ~~the~~ search tree data;

upon obtaining the update data from the search data providing apparatus, the update data obtaining device stores the obtained update data into the ~~second~~ storage device separately from the first search data ~~without updating the search tree data or creating new search tree data~~; and

the navigation apparatus further includes a search device that executes a substance data search by using ~~[[both]]~~ the search tree data of the first search data stored in the ~~first~~ storage device to execute a tree search and using the ~~information to be used in a search~~ index attached to each set of second substance data of the update data stored in the ~~second~~ storage device to conduct an index search, in correspondence to input of a character for search.

4. (Currently Amended) The search data update system according to claim 3, wherein:

upon obtaining new update data, the update data obtaining device in the navigation apparatus sorts entire update data including the new update data and the update data already stored in the ~~second~~ storage device based upon the ~~information to be used in a search~~ index and stores the sorted update data in the ~~second~~ storage device.

5. (Currently Amended) The search data update system according to claim 3, wherein:

the navigation apparatus further includes a control device that executes navigation processing including route search and route guidance by using the first or second substance data obtained via the search device.

6. (Previously Presented) The search data update system according to claim 3, wherein:

once a number of sets of update data having been obtained becomes equal to or greater than a predetermined value, the update data obtaining device in the navigation apparatus provides an audio output or a display output notifying that the number of sets of update data is equal to or greater than the predetermined value.

7. (Currently Amended) The search data update system according to claim 3, wherein:

once a number of sets of update data having been obtained becomes equal to or greater than a predetermined value, the update data obtaining device in the navigation apparatus obtains a new version of first search data constituted with new search tree data and a new plurality of sets of first substance data containing second substance data in the update data each specified based upon the new search tree data and stores the new version of first search data thus obtained into the first storage device.

8. (Currently Amended) The search data update system according to claim 5, wherein:

the navigation apparatus further includes an input device with which a search key can be entered one character at a time, wherein:

in correspondence to each character entered via the input device, the search device advances a search executed by using the search tree in the first search data, also compares the character with the ~~information to be used in a search~~ index, which is contained in each of a plurality of sets of update data stored in the ~~second~~ storage device, and attaches a non-target index to each set of update data determined not to be a search target based upon comparison results.

9. (Previously Presented) The search data update system according to claim 3, wherein:

the update data obtaining device in the navigation apparatus transmits to the search data providing apparatus information indicating a range of search data to be updated; and

if update data are available over the range of search data to be updated indicated in the received information, the search data providing apparatus provides the update data over the range to the navigation apparatus.

10. (Currently Amended) The search data update system according to claim 3, wherein:

the update data obtaining device in the navigation apparatus transmits to the search data providing apparatus information related to a version of the update data stored in the ~~second~~ storage device; and

if a newer version of second substance data than the version indicated in the received information is available, the search data providing apparatus provides the update data corresponding to the newer version of the second substance data to the navigation apparatus.

11. (Previously Presented) A navigation apparatus in the search data update system according to claim 3.

12. (Previously Presented) A search data providing apparatus in the search data update system according to claim 3.

13. (Currently Amended) A navigation apparatus capable of updating search data comprising:

a first storage unit at which first search data constituted with search tree data having tree structure and a plurality of sets of first substance data each specified based upon the search tree data are stored, the first substance data including facility information;

an update data obtaining device to obtain update data that are used to update or add to ~~substance data of the search data~~, wherein the update data does not include ~~are different from~~ data specified based upon ~~[[the]]~~ search tree data, and the update data have an index as a search key ~~search-related information~~ in each set of second substance data in the update data;

a second storage unit at which the update data obtained by the update data obtaining device are stored separately from the first search data; and

a search device that executes a substance data search by using both the first search data stored in the first storage unit and the update data stored in the second storage unit.